

ENGINEERING STATEMENT  
RE MODIFICATION OF LICENSE TO INCREASE  
EFFECTIVE RADIATED POWER  
ON BEHALF OF  
MAINE PUBLIC BROADCASTING CORPORATION  
WCBB-DT, AUGUSTA, MAINE  
CHANNEL 10 43 KW ND ERP 304 METERS

NOVEMBER 2017

COHEN, DIPPELL AND EVERIST, P.C.  
CONSULTING ENGINEERS  
RADIO AND TELEVISION  
WASHINGTON, D.C.

COHEN, DIPPELL AND EVERIST, P. C.

City of Washington                    )  
                                                  ) ss  
District of Columbia                 )


Donald G. Everist, being duly sworn upon his oath, deposes and states that:

He is a graduate electrical engineer, a Registered Professional Engineer in the District of Columbia, and is President, Secretary and Treasurer of Cohen, Dippell and Everist, P.C., Consulting Engineers, Radio - Television, with offices at 1420 N Street, N.W., Suite One, Washington, D.C. 20005;

That his qualifications are a matter of record in the Federal Communications Commission;


That the attached engineering report was prepared by him or under his supervision and direction and

That the facts stated herein are true of his own knowledge, except such facts as are stated to be on information and belief, and as to such facts he believes them to be true.

  
\_\_\_\_\_  
Donald G. Everist  
District of Columbia  
Professional Engineer  
Registration No. 5714

Subscribed and sworn to before me this 28<sup>th</sup> day of November, 2017.



  
\_\_\_\_\_  
Notary Public

My Commission Expires: 2/28/2018

This engineering statement has been prepared in support of an application to modify the license on behalf of Maine Public Broadcasting Corporation, licensee of WCBB-DT, Augusta, Maine. The purpose of the application is to increase the licensed effective radiated power. It is proposed to operate facilities with 43 kW non-directional effective radiated power ("ERP").

WCBB(TV) is licensed to operate on DTV television Channel 10 with a maximum ERP of 30 kW and an antenna height above average terrain ("HAAT") of 304 meters (997.4 feet). WCBB-DT proposes to construct DTV facilities of 43 kW non-directional at a height above average terrain of 304 meters.

#### Allocation

An allocation study from the proposed site has been performed.

WCBB-DT intends to use its currently licensed non-directional antenna. The proposed 43 kW ERP will not exceed the 0.5% additional interference standard to any other known post-transition station as shown in Table I. The predicted interference to the Canadian station CKMI is all located inside the United States.

#### Transmitter Site

There are no AM stations located within 3.2 km of the proposed WCBB-DT tower site. There are no FM and there is one full-service DTV facilities within 100 meters.

The TV antenna is mounted on the existing tower. The WCBB-DT antenna is located on an existing tower having a total overall structure height above ground of 193.2 meters (633.9 feet). The existing transmitter site is located on Oak Hill Road, Litchfield, Maine. The registration number for the tower is 1035353.

Since there is no change in overall height, FAA airspace approval is not required. Exhibit E-1 is a vertical sketch of the existing tower and the proposed transmitting antenna.

The geographic coordinates of the proposed site are as follows:

North Latitude: 44° 09' 15"

West Longitude: 70° 00' 37"

NAD-27

North Latitude: 44° 09' 15"

West Longitude: 70° 00' 35"

NAD-83

Equipment Data

Antenna: Dielectric, Model TW-12 B10-R (or equivalent) antenna with 1.0° electrical beam tilt. The vertical plane pattern and other exhibits required by Section 73.625(c) are attached in Exhibit E-2

Transmission Line: Dielectric, 6-1/8" or equivalent

Elevation Data  
(unchanged)

Overall height above ground of the existing antenna structure (including beacon and lightning rod)	193.2 meters 633.9 feet
Center of radiation of Channel 10 antenna above ground	177 meters 580.7 feet
Elevation of site above mean sea level	209.7 meters 688 feet
Center of radiation of Channel 10 antenna above mean sea level	386.7 meters 1268.7 feet

Overall height above mean sea level	402.9 meters
of existing tower and stacked antenna (including beacon)	1321.9 feet
Antenna height above average terrain	304 meters

Note: Slight height differences may result due to conversion to metric.

#### Allocation

An allocation study from the proposed site has been performed.

#### Interference Analysis

A study of predicted interference caused by the proposed WCBB-DT operation on Channel 10 digital operation has been performed using the Longley-Rice program for which the source data has been posted by the Commission on its website at [fcc.gov/oet/tvstudy](http://fcc.gov/oet/tvstudy). Comparison of service/interference areas and population indicates this model closely matches the FCC's digital TVStudy 2.2 evaluation program. Best efforts have been made to use data and calculation identical to the FCC's program. The model employs the Longley-Rice propagation methodology and evaluates in grid cells of approximately 1 sq. km. Using one-second terrain data sampled approximately every 1.0 km at one-degree azimuth intervals with 2010 census centroids, all studies are based upon data in the Commission's current Licensing and Management System ("LMS") database update of the FCC's engineering database. The results are attached in Exhibit E-2.

### Contour Data

The average elevation data for 3.2 to 16.1 km along each radial are based upon the one-second NGDC terrain data.

The F(50,90) DTV coverage contour has been computed from reference to the propagation data for Channels 7-13, as published by the FCC in Figure 10 and Figure 10a, Section 73.699 of the FCC Rules and Regulations.

Utilizing the formula in Section 73.625(b)(2) of the Rules for the effective heights, it is found that the depression angle,  $A_h$ , varies from 0.460 to 0.499 degrees. Since the relative vertical field is greater than 90% of the maximum at these depression angles, the maximum power was used in determining the distance to the DTV contour.

Utilizing the formula in Section 73.625(b)(2) for the effective heights along each radial, the depression angle  $A_h$ , for each azimuth has been calculated. The maximum radiation value has been used to calculate the ERP where the vertical radiation pattern field value at these angles is greater than 90% of the maximum.

Table I provides the distances calculated by TVStudy 2.2 along each radial spaced every ten degrees in azimuth to the predicted F(50,90) 36 dBu contour, the effective radiated power and the effective antenna heights. The predicted 36 dBu contour determined from these distances are shown on the attached map (Exhibit E-4).

Total Radiofrequency Field Levels at WCBB-DT Tower Site

The RFF contribution of each station will be calculated using the following formula:

$$S = \frac{33.4(F^2) \text{ Total ERP}}{R^2}$$

where:

S = power density in  $\mu\text{W}/\text{cm}^2$

F = relative field factor

Total ERP = ERP Horizontal Polarization + ERP Vertical Polarization

R = RCAGL - 2 meters

ERP = RMS ERP in watts for DTV Stations

The percentage of radiofrequency field level (“RFF”) can be calculated for this proposed operation.

The RFF contribution of the proposed DTV operation two meters above the ground at the base of the WCBB-DT tower is less than one percent of the FCC guidelines for an uncontrolled environment.

Authorized personnel and rigging contractors will be alerted to the potential zone of high field levels on the tower, and if necessary, the station will operate with reduced power or terminate the operation of the transmitter as appropriate when it is necessary for authorized personnel or contractors to perform work on the tower. Workers and the general public, therefore, will not be subjected to RFF levels in excess of the current FCC guidelines.

Environmental Assessment

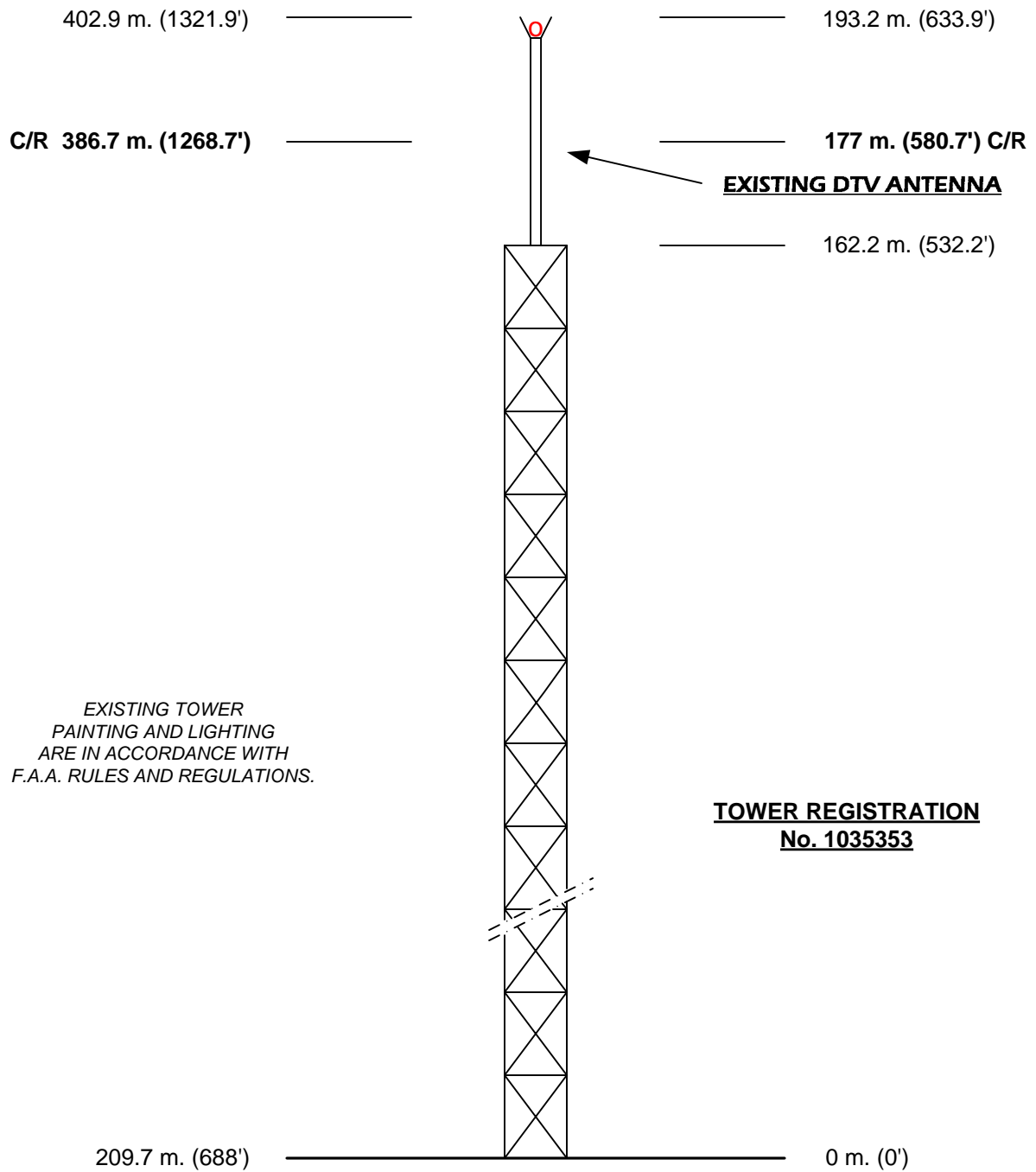
An environmental assessment ("EA") is categorically excluded under Section 1.1306 of the FCC Rules and Regulations as the tower was constructed prior to the requirements specified in WT Docket No. 03-128 and the licensee indicates:

- (a)(1) The existing tower is not located in an officially designated wilderness area.
- (a)(2) The existing tower is not located in an officially designated wildlife preserve.
- (a)(3) The proposed facilities will not affect any listed threatened or endangered species or habitats.
- (a)(3)(ii) The proposed facilities will not jeopardize the continued existence of any proposed endangered or threatened species or likely to result in the destruction or adverse modification of proposed critical habitats.
- (a)(4) The proposed facilities located on a tower which was built prior to the adoption of WT Docket No. 03-128 and is grandfathered and has not affected any known districts, sites, buildings, structures, or objects significant in American history, architecture, archaeology, engineering, or culture.
- (a)(5) The existing tower is not located near any known Indian religious sites.
- (a)(6) The existing tower is not located in a flood plain.
- (a)(7) The installation of the DTV facilities on an existing guyed tower will not involve a significant change in surface features of the ground in the vicinity of the tower.
- (a)(8) It is not proposed to equip the tower with high intensity white lights unless required by the FAA.
- (b) Workers and the general public will not be subjected to RFF levels in excess of the current FCC guidelines contained in OET Bulletin No. 65, Edition 97-01, dated August 1997 and Supplement A.



ABOVE MEAN SEA LEVEL

ABOVE GROUND



EXISTING TOWER  
PAINTING AND LIGHTING  
ARE IN ACCORDANCE WITH  
F.A.A. RULES AND REGULATIONS.

**TOWER REGISTRATION**  
**No. 1035353**

(NOT TO SCALE)

EXHIBIT E - 1  
VERTICAL SKETCH  
FOR THE PROPOSED DTV OPERATION OF  
**WCBB-DT, AUGUSTA, MAINE**  
NOVEMBER 2017

EXHIBIT E-2

ANTENNA MANUFACTURER DATA

Proposal Number	<b>DCA-9931</b>	
Date	<b>3-May-02</b>	
Call Letters	<b>WCBB</b>	Channel <b>10</b>
Location	<b>Augusta, ME</b>	
Customer	<b>Maine Public Broadcasting</b>	
Antenna Type	<b>TW-12B10-R</b>	

## SYSTEM SUMMARY

### Antenna:

Type:	<b>TW-12B10-R</b>	ERP:	<b>316 kW</b>	H Pol	<b>( 25.00 dBk )</b>
Channel:	<b>10</b>	RMS Gain*:	<b>12.0</b>		<b>( 10.79 dB )</b>
Location:	<b>Augusta, ME</b>	Input Power:	<b>26.3 kW</b>		<b>( 14.21 dBk )</b>

### Transmission Line:

Type:	<b>EIA/DCA</b>	Attenuation:	<b>0.80 dB</b>
Size:	<b>3-1/8 in</b>	Efficiency:	<b>83.2%</b>
Impedance:	<b>50 ohm</b>		
Length:	<b>580 ft</b>		<b>176.8 m</b>

### Transmitter:

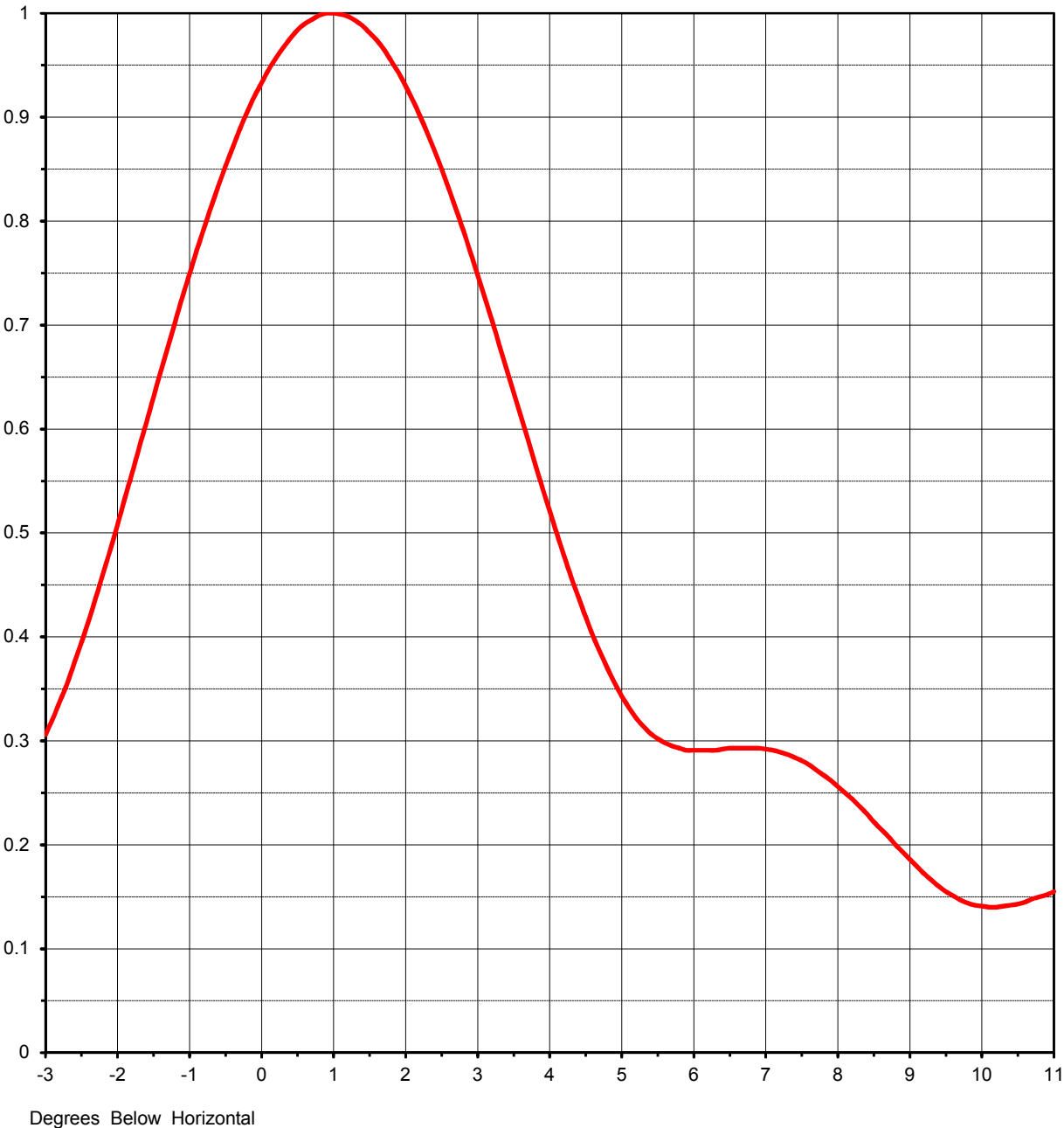
Power Required:	<b>31.7 kW</b>	<b>( 15.01 dBk )</b>
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\* Gain is with respect to half wave dipole.

Proposal Number	DCA-9931	
Date	3-May-02	
Call Letters	WCBB	Channel 10
Location	Augusta, ME	
Customer	Maine Public Broadcasting	
Antenna Type	TW-12B10-R	

ELEVATION PATTERN

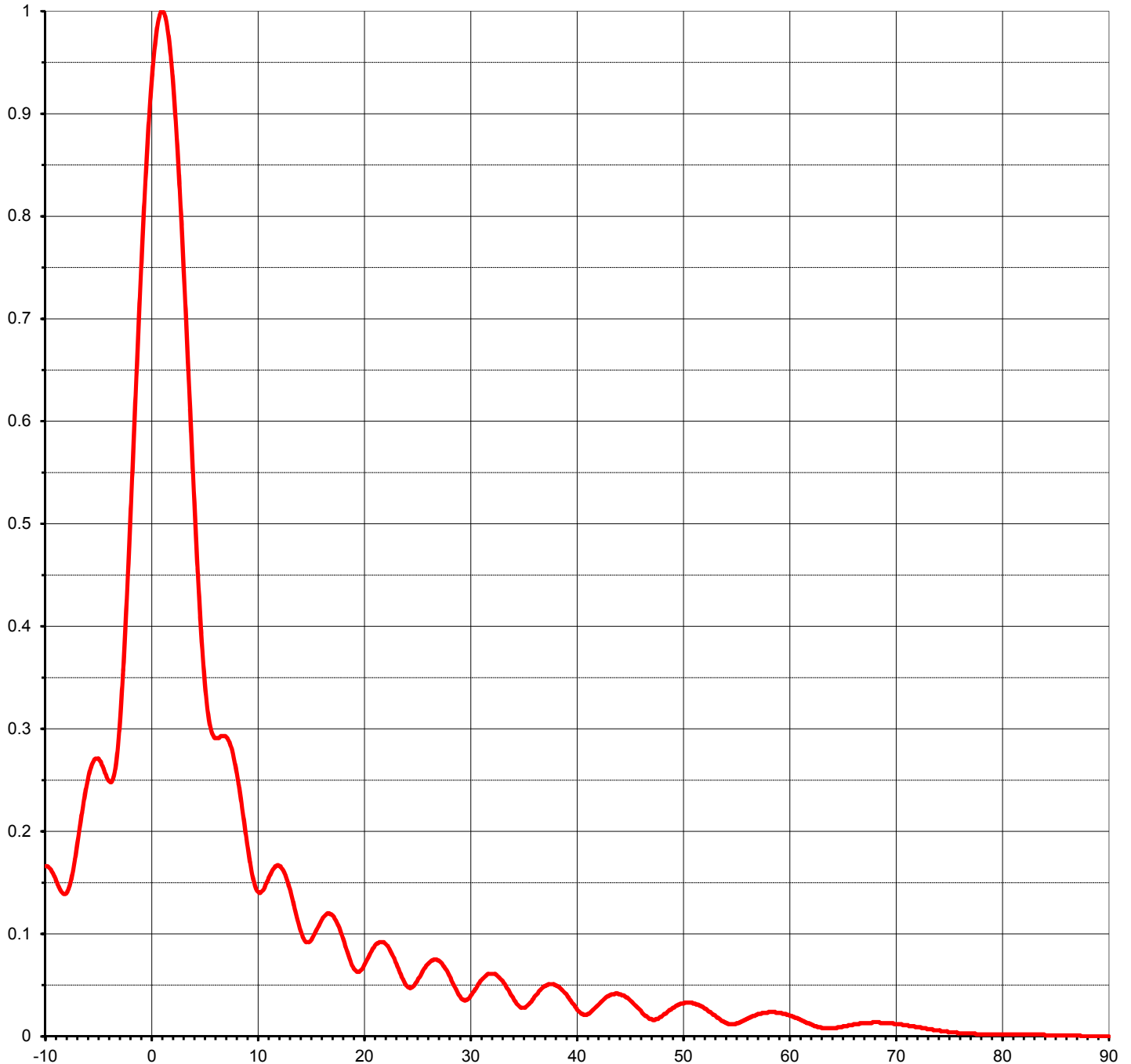
RMS Gain at Main Lobe	12.00 ( 10.79 dB )	Beam Tilt	1.00 deg
RMS Gain at Horizontal	10.40 ( 10.17 dB )	Frequency	195.00 MHz
Calculated / Measured	Calculated	Drawing #	25W120100



Proposal Number	<b>DCA-9931</b>		
Date	<b>3-May-02</b>		
Call Letters	<b>WCBB</b>	Channel	<b>10</b>
Location	<b>Augusta, ME</b>		
Customer	<b>Maine Public Broadcasting</b>		
Antenna Type	<b>TW-12B10-R</b>		

## ELEVATION PATTERN

RMS Gain at Main Lobe	<b>12.00 ( 10.79 dB )</b>	Beam Tilt	<b>1.00 deg</b>
RMS Gain at Horizontal	<b>10.40 ( 10.17 dB )</b>	Frequency	<b>195.00 MHz</b>
Calculated / Measured	<b>Calculated</b>	Drawing #	<b>25W120100-90</b>



Relative Gain (Horizontal)

Proposal Number **DCA-9931**

Date **3-May-02**

Call Letters **WCBB** Channel **10**

Location **Augusta, ME**

Customer **Maine Public Broadcasting**

Antenna Type **TW-12B10-R**

## TABULATION OF ELEVATION PATTERN

Elevation Pattern Drawing #: **25W120100-90**

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.166	2.4	0.868	10.6	0.143	30.5	0.046	51.0	0.032	71.5	0.010
-9.5	0.163	2.6	0.831	10.8	0.148	31.0	0.054	51.5	0.031	72.0	0.009
-9.0	0.152	2.8	0.791	11.0	0.152	31.5	0.059	52.0	0.028	72.5	0.008
-8.5	0.141	3.0	0.748	11.5	0.163	32.0	0.061	52.5	0.024	73.0	0.007
-8.0	0.140	3.2	0.704	12.0	0.167	32.5	0.060	53.0	0.021	73.5	0.006
-7.5	0.157	3.4	0.658	12.5	0.161	33.0	0.055	53.5	0.017	74.0	0.006
-7.0	0.188	3.6	0.612	13.0	0.146	33.5	0.047	54.0	0.014	74.5	0.005
-6.5	0.222	3.8	0.566	13.5	0.126	34.0	0.039	54.5	0.012	75.0	0.004
-6.0	0.251	4.0	0.521	14.0	0.106	34.5	0.031	55.0	0.012	75.5	0.004
-5.5	0.268	4.2	0.478	14.5	0.093	35.0	0.028	55.5	0.014	76.0	0.003
-5.0	0.271	4.4	0.438	15.0	0.093	35.5	0.031	56.0	0.017	76.5	0.003
-4.5	0.260	4.6	0.401	15.5	0.102	36.0	0.037	56.5	0.019	77.0	0.003
-4.0	0.249	4.8	0.370	16.0	0.112	36.5	0.044	57.0	0.021	77.5	0.002
-3.5	0.257	5.0	0.343	16.5	0.119	37.0	0.049	57.5	0.023	78.0	0.002
-3.0	0.306	5.2	0.322	17.0	0.119	37.5	0.051	58.0	0.023	78.5	0.002
-2.8	0.338	5.4	0.307	17.5	0.111	38.0	0.050	58.5	0.024	79.0	0.002
-2.6	0.375	5.6	0.298	18.0	0.098	38.5	0.047	59.0	0.023	79.5	0.002
-2.4	0.416	5.8	0.293	18.5	0.082	39.0	0.042	59.5	0.022	80.0	0.002
-2.2	0.461	6.0	0.291	19.0	0.068	39.5	0.035	60.0	0.021	80.5	0.002
-2.0	0.508	6.2	0.291	19.5	0.063	40.0	0.028	60.5	0.019	81.0	0.002
-1.8	0.557	6.4	0.292	20.0	0.068	40.5	0.022	61.0	0.017	81.5	0.002
-1.6	0.606	6.6	0.293	20.5	0.078	41.0	0.021	61.5	0.014	82.0	0.002
-1.4	0.655	6.8	0.293	21.0	0.087	41.5	0.025	62.0	0.012	82.5	0.002
-1.2	0.703	7.0	0.292	21.5	0.092	42.0	0.030	62.5	0.010	83.0	0.002
-1.0	0.749	7.2	0.289	22.0	0.091	42.5	0.035	63.0	0.009	83.5	0.002
-0.8	0.793	7.4	0.284	22.5	0.084	43.0	0.039	63.5	0.008	84.0	0.001
-0.6	0.834	7.6	0.277	23.0	0.073	43.5	0.041	64.0	0.008	84.5	0.001
-0.4	0.871	7.8	0.267	23.5	0.061	44.0	0.041	64.5	0.009	85.0	0.001
-0.2	0.905	8.0	0.256	24.0	0.050	44.5	0.040	65.0	0.010	85.5	0.001
0.0	0.933	8.2	0.244	24.5	0.048	45.0	0.036	65.5	0.011	86.0	0.001
0.2	0.957	8.4	0.230	25.0	0.053	45.5	0.031	66.0	0.012	86.5	0.001
0.4	0.976	8.6	0.215	25.5	0.062	46.0	0.026	66.5	0.012	87.0	0.001
0.6	0.990	8.8	0.200	26.0	0.070	46.5	0.020	67.0	0.013	87.5	0.000
0.8	0.998	9.0	0.186	26.5	0.074	47.0	0.017	67.5	0.013	88.0	0.000
1.0	1.000	9.2	0.172	27.0	0.074	47.5	0.017	68.0	0.014	88.5	0.000
1.2	0.997	9.4	0.160	27.5	0.069	48.0	0.019	68.5	0.013	89.0	0.000
1.4	0.988	9.6	0.151	28.0	0.061	48.5	0.023	69.0	0.013	89.5	0.000
1.6	0.974	9.8	0.147	28.5	0.050	49.0	0.027	69.5	0.013	90.0	0.000
1.8	0.954	10.0	0.142	29.0	0.040	49.5	0.030	70.0	0.012		
2.0	0.930	10.2	0.140	29.5	0.035	50.0	0.032	70.5	0.012		
2.2	0.901	10.4	0.141	30.0	0.038	50.5	0.033	71.0	0.011		

EXHIBIT E-3

ALLOCATION STUDY

tvstudy v2.2.3 (Dxtpx3)  
Database: localhost, Study: WCB-43kW, Model: Longley-Rice  
Start: 2017.11.22 13:18:30

Study created: 2017.11.22 13:14:26

Study build station data: LMS TV 2017-11-21 (32)

Proposal: WCB D10 DT LIC AUGUSTA, ME  
File number: PowerIncrease2  
Facility ID: 39659  
Station data: User record  
Record ID: 130  
Country: U.S.  
Zone: I

Search options:

Non-U.S. records included

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WMEB-TV	D9	DT	LIC	ORONO, ME	BLEDT20020508AAS	95.8 km
WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDDT20090616ABF	182.0
WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDDT20040701AEC	386.9
WWDP	D10	DT	LIC	NORWELL, MA	BLCDDT20090227ABX	252.6
WMED-TV	D10	DT	LIC	CALAIS, ME	BLEDT20030307AAM	233.8
WMEM-TV	D10	DT	LIC	PRESQUE ISLE, ME	BLEDT20090121ABS	317.0
WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	254.0
WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603	254.0
WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	145.3
CKMI-DT-2	D10	DT	LIC	SHERBROOKE, QC	BLANKCANADA310	218.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D10  
Latitude: 44 9 15.00 N (NAD83)  
Longitude: 70 0 35.00 W  
Height AMSL: 386.7 m  
HAAT: 304.0 m  
Peak ERP: 43.0 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 0.5

36.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	43.0 kW	313.8 m	105.0 km



45.0	43.0	323.5	105.8
90.0	43.0	318.1	105.4
135.0	43.0	307.3	104.5
180.0	43.0	294.7	103.7
225.0	43.0	303.9	104.3
270.0	43.0	286.5	103.2
315.0	43.0	280.9	103.0

ERP exceeds maximum

ERP: 43.0 kW ERP maximum: 30.0 kW

\*\*Proposal service area extends beyond baseline plus 1.0%  
 Proposal service area population is more than 95.0% of baseline

\*\*Proposal is within coordination distance of Canadian border  
 Distance to Canadian border: 136.8 km

Distance to Mexican border: 3149.0 km

Conditions at FCC monitoring station: Belfast ME  
 Bearing: 66.0 degrees Distance: 80.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
 Bearing: 273.6 degrees Distance: 2912.9 km

Study cell size: 2.00 km  
 Profile point spacing: 1.00 km

Maximum new IX to full-service and Class A: 0.50%  
 Maximum new IX to LPTV: 2.00%

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 Interference to BLEDT20020508AAS LIC, scenario 1

\*\*IX: 0.55% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMEB-TV	D9	DT	LIC	ORONO, ME	BLEDT20020508AAS	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	95.8 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	95.8
	WMTW	D8	DT	LIC	POLAND SPRING, ME	BLCDT20090622ACH	164.3
	WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDT20090616ABF	277.5
	CKLT-DT	D9	DT	LIC	SAINT JOHN, NB	BLANKCANADA131	239.3
	CIMT-DT	D9	DT	LIC	RIVIEREDULOUP, QC	BLANKCANADA295	320.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	27398.8	511,761	25763.2	494,574	24907.7	457,895	24835.7 455,355 0.29 0.55

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	743.5	36,381	699.4	35,176
WCBB D10 DT LIC	815.5	38,921		
WMTW D8 DT LIC	12.0	426	0.0	0
WMUR-TV D9 DT LIC	40.1	1,020	4.0	1
CKLT-DT D9 DT LIC	100.0	295	100.0	295
CIMT-DT D9 DT LIC	8.0	2	8.0	2

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Interference to BLCDDT20090616ABF LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDDT20090616ABF	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	182.0 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	182.0
	WMTW	D8	DT	LIC	POLAND SPRING, ME	BLCDDT20090622ACH	116.8
	WEDN	D9	DT	LIC	NORWICH, CT	BLEDT20090618ACB	169.4
	WMEB-TV	D9	DT	LIC	ORONO, ME	BLEDT20020508AAS	277.5
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDDT20090227ABX	117.0
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	143.8
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	25625.7	5,192,179	23050.1	5,003,980	22420.2	4,900,137	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	0.0	0	0.0	0
WCBB D10 DT LIC	3.9	127		
WMTW D8 DT LIC	202.5	8,331	147.0	4,884
WEDN D9 DT LIC	419.4	95,210	379.7	91,863
WMEB-TV D9 DT LIC	91.3	4,649	27.8	1,138
WWDP D10 DT LIC	8.0	2,330	0.0	0

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Interference to BLCDDT20090616ABF LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDDT20090616ABF	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	182.0 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	182.0
	WMTW	D8	DT	LIC	POLAND SPRING, ME	BLCDDT20090622ACH	116.8
	WEDN	D9	DT	LIC	NORWICH, CT	BLEDT20090618ACB	169.4
	WMEB-TV	D9	DT	LIC	ORONO, ME	BLEDT20020508AAS	277.5
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDDT20090227ABX	117.0
	WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603	143.8
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	25625.7	5,192,179	23050.1	5,003,980	22416.2	4,899,938	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBT D10 DT BL	0.0	0	0.0	0
WCBT D10 DT LIC	3.9	127		0.0
WMTW D8 DT LIC	202.5	8,331	147.0	4,884
WEDN D9 DT LIC	419.4	95,210	375.7	91,820
WMEB-TV D9 DT LIC	91.3	4,649	27.8	1,138
WWDP D10 DT LIC	8.0	2,330	0.0	0
WVER D10 DD APP	8.0	242	4.0	199

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Interference to BLCDD20040701AEC LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDD20040701AEC	
Undesireds:	WCBT	D10	DT	BL	AUGUSTA, ME	DTVBL39659	386.9 km
	WCBT	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	386.9
	WEDN	D9	DT	LIC	NORWICH, CT	BLED20090618ACB	66.2
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDD20090227ABX	171.2
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	248.8
	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLCDD20090612AJV	76.4
	WPIX	D11	DT	CP	NEW YORK, NY	BMPCDD20080620ALB	118.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29875.7 7,844,936	27300.6 7,332,431	25670.7 6,625,013	25670.7 6,625,013	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBT D10 DT BL	8.0	349	4.0	222
WCBT D10 DT LIC	8.0	349		4.0
WEDN D9 DT LIC	516.2	61,594	407.3	54,652
WWDP D10 DT LIC	446.9	79,067	290.0	16,396
WVER D10 DT CP	68.2	3,995	64.2	3,868
WWLP D11 DT LIC	571.9	229,491	552.0	218,720
WPIX D11 DT CP	179.6	395,720	155.5	350,889

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Interference to BLCDD20040701AEC LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDD20040701AEC	
Undesireds:	WCBT	D10	DT	BL	AUGUSTA, ME	DTVBL39659	386.9 km
	WCBT	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	386.9
	WEDN	D9	DT	LIC	NORWICH, CT	BLED20090618ACB	66.2
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDD20090227ABX	171.2
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	248.8
	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLCDD20090612AJV	76.4
	WPIX	D11	DT	LIC	NEW YORK, NY	BLCDD20090911ABN	114.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
29875.7 7,844,936	27300.6 7,332,431	25538.9 6,377,553	25538.9 6,377,553	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	8.0	349	4.0	222
WCBB D10 DT LIC	8.0	349		4.0
WEDN D9 DT LIC	516.2	61,594	407.3	54,652
WWDP D10 DT LIC	446.9	79,067	286.0	16,396
WVER D10 DT CP	68.2	3,995	64.2	3,868
WWLP D11 DT LIC	571.9	229,491	552.0	218,720
WPIX D11 DT LIC	315.4	643,180	287.4	598,349

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Interference to BLCDT20040701AEC LIC, scenario 3

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDT20040701AEC	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	386.9 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	386.9
	WEDN	D9	DT	LIC	NORWICH, CT	BLEDT20090618ACB	66.2
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDT20090227ABX	171.2
	WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603	248.8
	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLCDT20090612AJV	76.4
	WPIX	D11	DT	CP	NEW YORK, NY	BMPCDT20080620ALB	118.9
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
	29875.7	7,844,936	27300.6	7,332,431	25493.8	6,602,116	0.00 0.00

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	8.0	349	4.0	222
WCBB D10 DT LIC	8.0	349		4.0
WEDN D9 DT LIC	516.2	61,594	395.2	54,001
WWDP D10 DT LIC	446.9	79,067	262.0	14,483
WVER D10 DD APP	333.5	38,525	241.1	26,765
WWLP D11 DT LIC	571.9	229,491	540.0	216,255
WPIX D11 DT CP	179.6	395,720	155.5	350,889

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Interference to BLCDT20040701AEC LIC, scenario 4

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDT20040701AEC	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	386.9 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	386.9
	WEDN	D9	DT	LIC	NORWICH, CT	BLEDT20090618ACB	66.2
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDT20090227ABX	171.2
	WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603	248.8
	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLCDT20090612AJV	76.4
	WPIX	D11	DT	LIC	NEW YORK, NY	BLCDT20090911ABN	114.6
-----							
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX

29875.7	7,844,936	27300.6	7,332,431	25362.0	6,354,656	25362.0	6,354,656	0.00	0.00
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Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	8.0	349	4.0	222
WCBB D10 DT LIC	8.0	349		4.0
WEDN D9 DT LIC	516.2	61,594	395.2	54,001
WWDP D10 DT LIC	446.9	79,067	257.9	14,483
WVER D10 DD APP	333.5	38,525	241.1	26,765
WWLP D11 DT LIC	571.9	229,491	540.0	216,255
WPIX D11 DT LIC	315.4	643,180	287.4	598,349

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Interference to BLCDT20090227ABX LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDT20090227ABX	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	252.6 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	252.6
	WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDT20090616ABF	117.0
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDT20040701AEC	171.2
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	248.6
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	130.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	17970.0	5,792,048	16872.7	5,564,295	15222.4	5,391,250	0.69 0.48

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	272.9	75,285	72.2	16,338
WCBB D10 DT LIC	465.5	103,979		176.7
WMUR-TV D9 DT LIC	16.1	3,161	4.0	867
WTNH D10 DT LIC	1554.0	152,227	1361.3	93,588
WVER D10 DT CP	36.1	18,490	4.0	1,781
WENH-TV D11 DT LIC	24.1	5,671	0.0	0

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Interference to BLCDT20090227ABX LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDT20090227ABX	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	252.6 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	252.6
	WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDT20090616ABF	117.0
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDT20040701AEC	171.2
	WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603	248.6
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	130.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	17970.0	5,792,048	16872.7	5,564,295	15178.2	5,377,101	0.64 0.42

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	272.9	75,285	60.2	7,784
WCBB D10 DT LIC	465.5	103,979		156.6
WMUR-TV D9 DT LIC	16.1	3,161	0.0	0
WTNH D10 DT LIC	1554.0	152,227	1305.1	74,584
WVER D10 DD APP	196.7	82,922	48.1	15,930
WENH-TV D11 DT LIC	24.1	5,671	0.0	0

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Interference to BLEDT20030307AAM LIC, scenario 1  
\*\*IX: 2.32% interference

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMED-TV	D10	DT	LIC	CALAIS, ME	BLEDT20030307AAM	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	233.8 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	233.8
	WMEM-TV	D10	DT	LIC	PRESQUE ISLE, ME	BLEDT20090121ABS	173.4
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	9086.0	30,488	8370.1	29,577	7628.3	27,973	0.84 2.32
	6977.0	28,455	6457.7	27,617	5489.4	26,524	0.66 0.00 (in

Canada)

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	271.0	848	123.5	398
WCBB D10 DT LIC	358.8	1,498		187.4
WCBB D10 DT BL	135.8	0	36.1	0
WCBB D10 DT LIC	203.6	0		72.1
WMEM-TV D10 DT LIC	618.2	1,206	470.8	756
WMEM-TV D10 DT LIC	932.2	1,093	832.4	1,093

(in Canada)  
(in Canada)  
(in Canada)

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Interference to BLEDT20090121ABS LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WMEM-TV	D10	DT	LIC	PRESQUE ISLE, ME	BLEDT20090121ABS	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	317.0 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	317.0
	WMED-TV	D10	DT	LIC	CALAIS, ME	BLEDT20030307AAM	173.4
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	15112.7	71,700	14137.2	69,981	13850.3	69,284	13830.1 69,232 0.15 0.08
	16353.9	73,008	14213.8	67,079	13777.8	65,925	13777.8 65,925 0.00 0.00 (in

Canada)

Undesired		Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	123.4	309	55.7	86
WCBB D10 DT LIC	151.5	392		75.8
WCBB D10 DT BL	8.0	0	0.0	0

(in Canada)

WCBB D10 DT LIC	8.0	0		0.0	0	(in Canada)
WMED-TV D10 DT LIC	231.3	611	163.5	388	155.6	357
WMED-TV D10 DT LIC	436.0	1,154	428.0	1,154	428.0	1,154 (in Canada)

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Interference to BLANK0000028382 CP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382			
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	254.0 km		
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	254.0		
	WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDT20090616ABF	143.8		
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDT20040701AEC	248.8		
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDT20090227ABX	248.6		
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	162.4		
	CKMI-DT-2	D10	DT	LIC	SHERBROOKE, QC	BLANKCANADA310	196.1		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
29286.9		764,294		22767.1		22252.5	0.16 0.12		
				576,108		569,281			
Undesired				Total IX	Unique IX, before	Unique IX, after			
WCBB D10 DT BL				155.4	2,015	103.6	1,461		
WCBB D10 DT LIC				203.3	2,829	139.6	2,172		
WMUR-TV D9 DT LIC				4.0	40	4.0	40		
WTNH D10 DT LIC				171.1	3,820	143.3	3,540		
WWDP D10 DT LIC				63.7	403	27.9	107		
WENH-TV D11 DT LIC				15.9	198	0.0	0		
CKMI-DT-2 D10 DT LIC				144.1	1,048	132.1	1,048		

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Interference to BLANK0000034603 APP, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603			
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	254.0 km		
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	254.0		
	WMUR-TV	D9	DT	LIC	MANCHESTER, NH	BLCDT20090616ABF	143.8		
	WTNH	D10	DT	LIC	NEW HAVEN, CT	BLCDT20040701AEC	248.8		
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDT20090227ABX	248.6		
	WHEC-TV	D10	DT	LIC	ROCHESTER, NY	BMLCDT20111228ABJ	366.2		
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	162.4		
	CKMI-DT-2	D10	DT	LIC	SHERBROOKE, QC	BLANKCANADA310	196.1		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
39704.5		1,337,566		33053.9		31940.3	0.09 0.03		
				1,136,017		1,115,517			
Undesired				Total IX	Unique IX, before	Unique IX, after			
WCBB D10 DT BL				279.5	2,783	111.7	1,148		
WCBB D10 DT LIC				335.4	3,802	139.7	1,520		

WMUR-TV D9 DT LIC	31.8	401	4.0	20	4.0	20
WTNH D10 DT LIC	463.3	12,941	315.3	11,306	303.4	10,933
WWDP D10 DT LIC	243.5	2,243	67.8	490	59.8	358
WHEC-TV D10 DT LIC	4.0	84	0.0	0	0.0	0
WENH-TV D11 DT LIC	71.7	784	19.9	266	19.9	266
CKMI-DT-2 D10 DT LIC	347.2	5,089	327.2	4,871	319.3	4,729

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Interference to BLEDT20090817ABS LIC, scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	145.3 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	145.3
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	162.4
	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLCDDT20090612AJV	172.2
	WPIX	D11	DT	CP	NEW YORK, NY	BMPCDDT20080620ALB	358.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31050.2	4,500,498	28284.8	4,328,222	28044.4	4,301,968	28024.3 4,294,826	0.07 0.17
Undesired			Total IX	Unique IX, before		Unique IX, after	
WCBB D10 DT BL	24.2	1,226	24.2	1,226			
WCBB D10 DT LIC	44.2	8,368			44.2	8,368	
WWLP D11 DT LIC	216.2	25,028	216.2	25,028	216.2	25,028	

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Interference to BLEDT20090817ABS LIC, scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	145.3 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	145.3
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	162.4
	WWLP	D11	DT	LIC	SPRINGFIELD, MA	BLCDDT20090612AJV	172.2
	WPIX	D11	DT	LIC	NEW YORK, NY	BLCDDT20090911ABN	354.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
31050.2	4,500,498	28284.8	4,328,222	28044.4	4,301,968	28024.3 4,294,826	0.07 0.17
Undesired			Total IX	Unique IX, before		Unique IX, after	
WCBB D10 DT BL	24.2	1,226	24.2	1,226			
WCBB D10 DT LIC	44.2	8,368			44.2	8,368	
WWLP D11 DT LIC	216.2	25,028	208.2	24,754	208.2	24,754	
WPIX D11 DT LIC	8.0	274	0.0	0	0.0	0	

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Interference to BLANKCANADA310 LIC, scenario 1



Desired:	Call CKMI-DT-2	Chan D10	Svc DT	Status LIC	City, State SHERBROOKE, QC	File Number BLANKCANADA310	Distance
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	218.2 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	218.2
	WMEM-TV	D10	DT	LIC	PRESQUE ISLE, ME	BLEDT20090121ABS	369.2
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	196.1
	CFTM-DT	D11	DT	LIC	MONTRAL, QC	BLANKCANADA272	107.5

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX	(in
7720.1	103,304	5866.6	72,923	5786.7 71,361	5770.9 71,248	0.27 0.16
U.S.)						
16152.3	889,618	15741.2	850,615	15601.2 823,180	15581.2 823,180	0.13 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	39.8 53	35.9 53	(in U.S.)
WCBB D10 DT LIC	55.7 166	51.7 166	(in U.S.)
WCBB D10 DT BL	19.9 443	15.9 443	
WCBB D10 DT LIC	43.8 443	35.9 443	
WMEM-TV D10 DT LIC	4.0 0	4.0 0	
WVER D10 DT CP	44.0 1,509	40.0 1,509	(in U.S.)
CFTM-DT D11 DT LIC	120.1 26,992	116.1 26,992	

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Interference to BLANKCANADA310 LIC, scenario 2

Desired:	Call CKMI-DT-2	Chan D10	Svc DT	Status LIC	City, State SHERBROOKE, QC	File Number BLANKCANADA310	Distance
Undesireds:	WCBB	D10	DT	BL	AUGUSTA, ME	DTVBL39659	218.2 km
	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	218.2
	WMEM-TV	D10	DT	LIC	PRESQUE ISLE, ME	BLEDT20090121ABS	369.2
	WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603	196.1
	CFTM-DT	D11	DT	LIC	MONTRAL, QC	BLANKCANADA272	107.5

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX	(in
7720.1	103,304	5866.6	72,923	5599.6 67,926	5595.6 67,926	0.07 0.00
U.S.)						
16152.3	889,618	15741.2	850,615	15597.2 823,180	15581.2 823,180	0.10 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
WCBB D10 DT BL	39.8 53	31.9 53	(in U.S.)
WCBB D10 DT LIC	55.7 166	35.9 53	(in U.S.)
WCBB D10 DT BL	19.9 443	15.9 443	
WCBB D10 DT LIC	43.8 443	31.9 443	
WMEM-TV D10 DT LIC	4.0 0	0.0 0	
WVER D10 DD APP	235.1 4,944	227.2 4,944	(in U.S.)
WVER D10 DD APP	24.0 715	4.0 0	
CFTM-DT D11 DT LIC	120.1 26,992	104.1 26,277	

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Interference to proposal, scenario 1  
1.89% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	
Undesireds:	WMEB-TV	D9	DT	LIC	ORONO, ME	BLEDT20020508AAS	95.8 km
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDDT20090227ABX	252.6
	WMED-TV	D10	DT	LIC	CALAIS, ME	BLEDT20030307AAM	233.8
	WMEM-TV	D10	DT	LIC	PRESQUE ISLE, ME	BLEDT20090121ABS	317.0
	WVER	D10	DT	CP	RUTLAND, VT	BLANK0000028382	254.0
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	145.3
	CKMI-DT-2	D10	DT	LIC	SHERBROOKE, QC	BLANKCANADA310	218.2

Service area	Terrain-limited	IX-free	Percent IX
34192.8	986,451	31299.6	931,145
30479.1	913,543	2.62	1.89

Undesired	Total IX	Unique IX	Prcnt Unique IX
WMEB-TV D9 DT LIC	649.2	13,531	533.5
WWDP D10 DT LIC	55.6	2,504	35.8
WMED-TV D10 DT LIC	131.7	2,805	40.0
WMEM-TV D10 DT LIC	88.0	1,627	24.1
WENH-TV D11 DT LIC	43.6	2,056	23.8
CKMI-DT-2 D10 DT LIC	27.9	322	27.9
		9,938	1.70
		1,329	0.11
		140	0.13
		224	0.08
		881	0.08
		322	0.09

Interference to proposal, scenario 2  
\*\*MX: 1.90% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCBB	D10	DT	LIC	AUGUSTA, ME	PowerIncrease2	
Undesireds:	WMEB-TV	D9	DT	LIC	ORONO, ME	BLEDT20020508AAS	95.8 km
	WWDP	D10	DT	LIC	NORWELL, MA	BLCDDT20090227ABX	252.6
	WMED-TV	D10	DT	LIC	CALAIS, ME	BLEDT20030307AAM	233.8
	WMEM-TV	D10	DT	LIC	PRESQUE ISLE, ME	BLEDT20090121ABS	317.0
	WVER	D10	DD	APP	RUTLAND, VT	BLANK0000034603	254.0
	WENH-TV	D11	DT	LIC	DURHAM, NH	BLEDT20090817ABS	145.3
	CKMI-DT-2	D10	DT	LIC	SHERBROOKE, QC	BLANKCANADA310	218.2

Service area	Terrain-limited	IX-free	Percent IX
34192.8	986,451	31299.6	931,145
30475.1	913,496	2.63	1.90

Undesired	Total IX	Unique IX	Prcnt Unique IX
WMEB-TV D9 DT LIC	649.2	13,531	533.5
WWDP D10 DT LIC	55.6	2,504	31.8
WMED-TV D10 DT LIC	131.7	2,805	40.0
WMEM-TV D10 DT LIC	88.0	1,627	24.1
WVER D10 DD APP	8.0	71	4.0
WENH-TV D11 DT LIC	43.6	2,056	23.8
CKMI-DT-2 D10 DT LIC	27.9	322	27.9
		9,938	1.70
		1,305	0.10
		140	0.13
		224	0.08
		47	0.01
		881	0.08
		322	0.09

TABLE I  
COMPUTED COVERAGE DATA  
FOR THE PROPOSED DTV OPERATION OF  
WCBB-DT, AUGUSTA, MAINE  
CHANNEL 10 43 KW ERP 304 METERS RC/AMSL  
NOVEMBER 2017

<u>Radial</u> N ° E, T	<u>Average</u> <u>Elevation</u> meters	<u>Effective</u> <u>Height</u> meters	<u>Depression</u> <u>Angle</u> degrees	<u>Effective</u> <u>Radiated</u> <u>Power</u> kW	<u>Distance to Contour</u> <u>36 dBu</u> km
0	72.9	313.8	0.5	43	105.0
10	70.8	315.9	0.5	43	105.2
20	68.6	318.1	0.5	43	105.4
30	66.5	320.2	0.5	43	105.5
40	64.3	322.4	0.5	43	105.7
50	63.8	322.9	0.5	43	105.8
60	65.0	321.7	0.5	43	105.7
70	66.2	320.5	0.5	43	105.6
80	67.4	319.3	0.5	43	105.5
90	68.6	318.1	0.5	43	105.4
100	71.0	315.7	0.5	43	105.2
110	73.4	313.3	0.5	43	105.0
120	75.8	310.9	0.5	43	104.8
130	78.2	308.5	0.5	43	104.6
140	80.8	305.9	0.5	43	104.4
150	83.6	303.1	0.5	43	104.2
160	86.4	300.3	0.5	43	104.0
170	89.2	297.5	0.5	43	103.8
180	92.0	294.7	0.5	43	103.7
190	90.0	296.7	0.5	43	103.8
200	87.9	298.8	0.5	43	103.9
210	85.9	300.8	0.5	43	104.1
220	83.9	302.8	0.5	43	104.2
230	84.8	301.9	0.5	43	104.1
240	88.6	298.1	0.5	43	103.9
250	92.5	294.2	0.5	43	103.6
260	96.3	290.4	0.5	43	103.4
270	100.2	286.5	0.5	43	103.2

TABLE I  
COMPUTED COVERAGE DATA  
FOR THE PROPOSED DTV OPERATION OF  
WCBB-DT, AUGUSTA, MAINE  
CHANNEL 10 43 KW ERP 304 METERS RC/AMSL  
NOVEMBER 2017

<u>Radial</u>	<u>Average</u>	<u>Effective</u>	<u>Depression</u>	<u>Effective</u>	<u>Distance to Contour</u>
<u>N ° E, T</u>	<u>Elevation</u>	<u>Height</u>	<u>Angle</u>	<u>Radiated</u>	<u>36 dBu</u>
	meters	meters	degrees	kW	km
280	101.4	285.3	0.5	43	103.2
290	102.7	284.0	0.5	43	103.1
300	103.9	282.8	0.5	43	103.1
310	105.2	281.5	0.5	43	103.0
320	102.1	284.6	0.5	43	103.2
330	94.8	291.9	0.5	43	103.5
340	87.5	299.2	0.5	43	103.9
350	80.2	306.5	0.5	43	104.5

